

ABSTRACT

Of the first sheet formed of piezoelectric materials and the second sheet formed of prescribed materials, the upper electrode layer formed of conduction materials is formed on one surface of the first sheet and the lower electrode layer formed of conduction materials is formed on the other surface of said first sheet or on one surface of the second sheet. And the first and the second sheets are piled and densified having the lower electrode layer between, and a piezoelectric actuator will be manufactured by patterning the upper electrode layer or the lower electrode layer in order to form multiple electrodes corresponding respectively to each pressure chamber of the pressure chamber forming unit.